

TRANSCRIPTIONAL REGULATORY FACTOR

Abstract of the Disclosure

BLAST search was done on the EST database by using various nucleotide sequences
5 encoding known bromodomain motifs to discover several ESTs likely encoding
bromodomain genes. Next, testicular cDNAs were PCR cloned by using primers designed
based on the sequence of EST (W17142), which is one of the ESTs discovered above. By
using the thus obtained PCR product as a probe, the testicular library was screened. The
obtained cDNA clone was used as a probe to re-screen the testicular cDNA library, thereby
10 successfully isolating a full-length cDNA corresponding to EST (W17142). The protein
encoded by the thus isolated cDNA had, in addition to the bromodomain, several regions and
domains conserved in transcription regulatory factors. Moreover, the protein interacted with
proteins associated with the chromatin-mediated transcriptional regulatory mechanism and a
transcription co-activator.

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